

## 2006 Engineering Conference Breakout Sessions For Period 5 (Tuesday, November 14, 2006, 11:00-11:50 A.M.)

### **6. Adaptive Management and Modeling to Mitigate for Impacts to Biological Resources**

**Track:** Environmental

**Presenters:** Mike Perkins (HDR), Rick Black (HDR), Heather O'Brien (SWCA), and TBD (agency member of Legacy Nature Preserve's "Collaborative Design Team")

**Synopsis:** Appropriate assessment and mitigation for impacts to wetlands and wildlife are of increasing concern to resource and regulatory agencies, natural resource academicians, environmental groups, and other members of the general public. Environmental legislation driving policy to develop adequate mitigation includes the National Environmental Policy Act, the Clean Water Act, and the Endangered Species Act. In recent years, researchers have developed and refined environmental models in attempt to adequately assess impacts and develop mitigation. Adaptive management is a useful approach in combination with modeling to collaborate with agencies and other stakeholders in developing adequate mitigation and ecosystem management strategies. Adaptive management is based on the premises that natural systems are complex and inherently dynamic. Adaptive Management is a flexible, iterative approach that directs conservation management practices over time by the results of research monitoring activities. An adaptive approach has been implemented on the Legacy Nature Preserve in coordination with the Preserve's interagency "Collaborative Design Team" to develop mitigation requirements and management strategies that mitigate impacts to wetlands and wildlife from the Parkway project.

**Time Required: 50 minutes**

### **13. Inspecting & Accepting New Highway Culverts**

**Track:** Structures

**Presenters:** Denis Stuhff, UDOT

**Synopsis:** Things to watch for and why they are important.

**Time Required: 50 minutes**

### **17. DMS Training (ProjectWise)**

**Track:** Design

**Presenters:** Bob Peterson

**Synopsis:** This session will present the Bentley version of a (electronic) Document Management System—ProjectWise.

**Time Required: 50 minutes**

### **30. ITS Strategic Plan**

**Track:** ITS

**Presenters** Richard Manser, Dave Kinnecom

**Synopsis:** Under the direction of a department-wide steering committee, UDOT recently completed a strategic plan for ITS in the state. This plan deals with strategic issues such as identifying and meeting customer needs and expectations; funding strategies; managing rapid changes in technology; hiring and maintaining staff with appropriate skills, knowledge and abilities; staff outsourcing vs in-house distribution of work; roles of private sector and government in providing traveler information services; centralization vs decentralization of operations and maintenance; and improvements to existing plans and processes.

**Time Required: 50 minutes**

### **32. Low Cost Safety Alternative**

**Track:** Traffic

**Presenters:** Bob Hull

**Synopsis:** This presentation highlights a national pooled fund study on evaluating safety strategies/countermeasures addressed in the NCHRP Report 500 guidebooks. Many of these tried or experimental strategies to improve safety have been implemented by state DOTs but have not been formally evaluated.

**Time Required: 50 minutes**

### **38. Bicycle and Pedestrian Checklists**

**Track:** System Planning/Programming

**Presenters:** Sharon Briggs, UDOT Bicycle and Pedestrian Coordinator, Randy Jefferies, UDOT R.1 Project Design, John Miller, UDOT R.2 Project Management, Travis Jensen, Carter-Burgess Inc., Bicycle Advocacy

**Synopsis:** IT'S MORE THAN JUST ABOUT CARS - Planning and designing roads that accommodate bicyclists and pedestrians.

Be one of the first to learn about the bicycle and pedestrian checklists that are now in UDOT's Roadway Design Manual of Instruction – and will be in the Design Process Manual. Project designers must complete the checklists at the concept, scoping, and final design phases of state projects to ensure that bicyclist and pedestrian transportation needs are being met. Department support for the checklists is evidenced by the approval of Policy No. 07-117, titled Routine Accommodations for Bicyclists and Pedestrians.

Presenters will provide a background on the need for the program, and discuss the implementation and benefits of the checklists from a designer, project manager, and advocacy perspective.

**Time Required: 50 minutes**

### **41. I-15 Study**

**Track:** System Planning/Programming

**Presenters:** Eric Rasband/UDOT, David Thompson/Fehr & Peers

**Synopsis:** The UDOT Planning Section in cooperation with Region Two and Fehr and Peers has built a VISSIM micro-simulation model to analyze alternative treatments along Interstate 15 to address the nightly congestion from Interstate 80 to 14400 South in Salt Lake County. The alternatives evaluated include the new Express Lanes in each alternative. This breakout session will include a discussion on data collection, model development, alternatives analysis, and final project recommendations.

**Time Required: 50 minutes**

### **56. I-15 NOW Design Build Project**

**Track:** Construction

**Presenters:** Brent DeYoung

**Synopsis:** This session will provide an overview of the \$265 million I-15 NOW Design Build project in Ogden. You will learn about the challenges faced and unique ideas used to overcome these challenges during the environmental and procurement process. The methods used provided flexibility for both the Department during the procurement process and for the Design Builder during the design process. Elements of the "Best Value" selection process used in selecting a Design Builder and the philosophy used to structure oversight management on a design build project will also be discussed.

**Time Required: 50 minutes**